

WHAT IS CLAIMED IS:

- 1           1.       A method for processing a source document in a structured document format  
2       including elements providing source content to render, wherein the source content comprises  
3       code that is rasterized into output, comprising:  
4           receiving the source document;  
5           receiving a layout data structure providing formatting properties specifying a layout and  
6       format of the content output;  
7           processing the source document and the layout data structure to determine formatting  
8       properties, including page divisions, for the content in the source document;  
9           generating multiple page objects, wherein each page object includes source content and  
10       formatting properties for one page; and  
11          transmitting the page objects to a rasterizer to transform into renderable information  
12       capable of being generated by an output device.
- 1           2.       The method of claim 1, wherein the source document includes statements in a  
2       first presentation language, further comprising:  
3           transforming the source document and source content therein into a result document in a  
4       second presentation language, wherein the result document includes the source content and the  
5       formatting properties provided by the layout data structure, wherein the formatting properties  
6       indicate page divisions of the content, and wherein the multiple page objects are generated from  
7       the result document.
- 1           3.       The method of claim 2, wherein the layout data structure comprises a separate  
2       document from the source document.

1           4.       The method of claim 2, wherein the first presentation language comprises the  
2 Extensible Markup Language (XML) and wherein the second presentation language comprises  
3 Extensible Stylesheet Language Formatting Objects (XSL-FO), and wherein the page layout  
4 data structure comprises an XSL stylesheet.

1           5.       The method of claim 2, wherein the page objects include formatting properties  
2 in a third presentation language.

1           6.       The method of claim 5, wherein the first presentation language comprises the  
2 Extensible Markup Language (XML), wherein the second presentation language comprises  
3 Extensible Stylesheet Language Formatting Objects (XSL-FO), wherein the third presentation  
4 language comprises the Mixed Object Document Content Architecture (MO:DCA), and  
5 wherein the layout data structure comprises an XSL stylesheet.

1           7.       The method of claim 5, wherein the third presentation language comprises a  
2 page description language.

1           8.       The method of claim 2, wherein the page objects include content and formatting  
2 properties in the second presentation language.

1           9.       The method of claim 2, wherein the second presentation language comprises  
2 Extensible Stylesheet Language Formatting Objects (XSL-FO).

1           10.      The method of claim 1, wherein the page objects include content and formatting  
2 properties in a device independent presentation language.

1           11.    The method of claim 1, wherein the source content is in a page description  
2 language.

1           12.    The method of claim 1, wherein the source document and page objects include  
2 the formatting properties in a same presentation language.

1           13.    The method of claim 1, wherein the page object includes content and formatting  
2 properties for one page.

1           14.    The method of claim 1, wherein the source document does not indicate page  
2 divisions for the content.

1           15.    A system for processing a source document in a structured document format  
2 including elements providing source content to render, wherein the source content comprises  
3 code that is rasterized into output, comprising:

4               means for receiving the source document;

5               means for receiving a layout data structure providing formatting properties specifying a  
6 layout and format of the content output;

7               means for processing the source document and the layout data structure to determine  
8 formatting properties, including page divisions, for the content in the source document;

9               means for generating multiple page objects, wherein each page object includes source  
10 content and formatting properties for one page; and

11              means for transmitting the page objects to a rasterizer to transform into renderable  
12 information capable of being generated by an output device.

1           16.     The system of claim 15, wherein the source document includes statements in a  
2 first presentation language, further comprising:  
3           means for transforming the source document and source content therein into a result  
4 document in a second presentation language, wherein the result document includes the source  
5 content and the formatting properties provided by the layout data structure, wherein the  
6 formatting properties indicate page divisions of the content, and wherein the multiple page  
7 objects are generated from the result document.

1           17.     The system of claim 16, wherein the layout data structure comprises a separate  
2 document from the source document.

1           18.     The system of claim 15, wherein the first presentation language comprises the  
2 Extensible Markup Language (XML) and wherein the second presentation language comprises  
3 Extensible Stylesheet Language Formatting Objects (XSL-FO), and wherein the page layout  
4 data structure comprises an XSL stylesheet.

1           19.     The system of claim 15, wherein the page objects include formatting properties  
2 in a third presentation language.

1           20.     The system of claim 19, wherein the first presentation language comprises the  
2 Extensible Markup Language (XML), wherein the second presentation language comprises  
3 Extensible Stylesheet Language Formatting Objects (XSL-FO), wherein the third presentation  
4 language comprises the Mixed Object Document Content Architecture (MO:DCA), and  
5 wherein the layout data structure comprises an XSL stylesheet.

1           21.     The system of claim 19, wherein the third presentation language comprises a  
2     page description language.

1           22.     The system of claim 16, wherein the page objects include content and  
2     formatting properties in the second presentation language.

1           23.     The system of claim 16, wherein the second presentation language comprises  
2     Extensible Stylesheet Language Formatting Objects (XSL-FO).

1           25.     The system of claim 15, wherein the page objects include content and  
2     formatting properties in a device independent presentation language.

1           26.     The system of claim 15, wherein the source content is in a page description  
2     language.

1           27.     The system of claim 15, wherein the source document and page objects include  
2     the formatting properties in a same presentation language.

1           28.     The system of claim 15, wherein the page object includes content and  
2     formatting properties for one page.

1           29.     The system of claim 15, wherein the source document does not indicate page  
2     divisions for the content.

1           30.     An article of manufacture for processing a source document in a structured  
2     document format including elements providing source content to render, wherein the source

3 content comprises code that is rasterized into output, and wherein the article of manufacture  
4 comprises code capable of causing a processor to perform:  
5 receiving the source document;  
6 receiving a layout data structure providing formatting properties specifying a layout and  
7 format of the content output;  
8 processing the source document and the layout data structure to determine formatting  
9 properties, including page divisions, for the content in the source document;  
10 generating multiple page objects, wherein each page object includes source content and  
11 formatting properties for one page; and  
12 transmitting the page objects to a rasterizer to transform into renderable information  
13 capable of being generated by an output device.

1 31. The article of manufacture of claim 30, wherein the source document includes  
2 statements in a first presentation language, and wherein the code is further capable of causing  
3 the processor to perform:  
4 transforming the source document and source content therein into a result document in a  
5 second presentation language, wherein the result document includes the source content and the  
6 formatting properties provided by the layout data structure, wherein the formatting properties  
7 indicate page divisions of the content, and wherein the multiple page objects are generated from  
8 the result document.

1 32. The article of manufacture of claim 31, wherein the layout data structure  
2 comprises a separate document from the source document.

1 33. The article of manufacture of 31, wherein the first presentation language  
2 comprises the Extensible Markup Language (XML) and wherein the second presentation

3 language comprises Extensible Stylesheet Language Formatting Objects (XSL-FO), and  
4 wherein the page layout data structure comprises an XSL stylesheet.

1 34. The article of manufacture of 31, wherein the page objects include formatting  
2 properties in a third presentation language.

1 35. The article of manufacture of 34, wherein the first presentation language  
2 comprises the Extensible Markup Language (XML), wherein the second presentation language  
3 comprises Extensible Stylesheet Language Formatting Objects (XSL-FO), wherein the third  
4 presentation language comprises the Mixed Object Document Content Architecture  
5 (MO:DCA), and wherein the layout data structure comprises an XSL stylesheet.

1 36. The article of manufacture of claim 34, wherein the third presentation language  
2 comprises a page description language.

1 37. The article of manufacture of claim 31, wherein the page objects include  
2 content and formatting properties in the second presentation language.

1 38. The article of manufacture of claim 31, wherein the second presentation  
2 language comprises Extensible Stylesheet Language Formatting Objects (XSL-FO).

1 39. The article of manufacture of claim 31, wherein the page objects include  
2 content and formatting properties in a device independent presentation language.

1 40. The article of manufacture of claim 30, wherein the source content is in a page  
2 description language.

1           41.     The article of manufacture of claim 30, wherein the source document and page  
2 objects include the formatting properties in a same presentation language.

1           42.     The article of manufacture of claim 30, wherein the page object includes  
2 content and formatting properties for one page.

1           43.     The article of manufacture of claim 30, wherein the source document does not  
indicate page divisions for the content.

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